සියලු ම හිමිකම් ඇවිරිණි /முழுப் பதிப்புரிமையுடையது /All Rights Reserved]

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இலங்கைப் பரீட்சைத் திணைக்களம்
Department of Examinations, Sri Lanka

අධ්‍යයන පොදු සහතික පත්‍ර (උසස් පෙළ) විභාගය, 2025
கல்விப் பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீட்சை, 2025
General Certificate of Education (Adv. Level) Examination, 2025

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உயிரியல் II
Biology II

09 E II

Part B - Essay

Instructions:

※ *Answer **four** questions only.*
Give clear labelled diagrams where necessary.
(*Each question carries* **150** *marks.*)

5. (a) Explain the Calvin cycle of photosynthesis.

   (b) Briefly describe the characteristic features of kingdom Fungi.

6. (a) Describe the primary structure of a dicot root.

   (b) Discuss the impacts of low temperatures on plants and explain how plants respond to cold stress.

7. (a) Explain the role of natural killer cells in immunity of humans.

   (b) Describe the active immunity of humans.

8. (a) Briefly describe the structural arrangement of a synapse and explain the mechanism of transmitting a nerve impulse through a chemical synapse.

   (b) Briefly describe the symptoms and associated reasons of Parkinson disease in humans.

9. (a) Explain the process of DNA isolation in gene technology.

   (b) Describe the main steps and associated principles in purification of industrial wastewater.

10. Write short notes on the following.

   (a) Common human traits that show Mendelian pattern of inheritance

   (b) Tropical thorn scrubs in Sri Lanka

   (c) Environmental impacts of ornamental fish culture

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